1. Solve the equation below. Then, choose the interval that contains the solution.

$$-12(7x + 16) = -8(19x - 10)$$

A. $x \in [1.3, 2.6]$

B. $x \in [2.8, 4.9]$

C. $x \in [-2, -1.3]$

D. $x \in [-1.1, 1.2]$

E. There are no real solutions.

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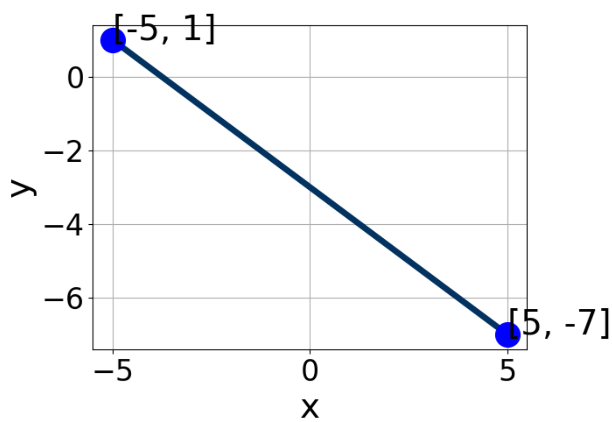
2. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-6.2, -3.8], \quad B \in [-6.6, -4], \text{ and } \quad C \in [14, 17]$

B. $A \in [1.8, 4.5], \quad B \in [3.4, 5.6], \text{ and } \quad C \in [-15, -14]$

C. $A \in [-1.7, 3.2], \quad B \in [-3.6, -0.6], \text{ and } \quad C \in [1, 7]$

D. $A \in [1.8, 4.5], \quad B \in [-6.6, -4], \text{ and } \quad C \in [14, 17]$

E. $A \in [-1.7, 3.2], \quad B \in [0.5, 2], \text{ and } \quad C \in [-7, 0]$

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3. Solve the equation below. Then, choose the interval that contains the solution.

$$-11(-6x - 15) = -16(13x - 8)$$

A. $x \in [1.86, 2.31]$

B. $x \in [-0.16, 0.17]$

C. $x \in [-1.34, -0.84]$

D. $x \in [0.74, 1.35]$

E. There are no real solutions.

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4. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{5x-7}{4} - \frac{-7x+3}{5} = \frac{5x-4}{2}$$

A. $x \in [1.4, 3.3]$

B. $x \in [-5.7, -5.3]$

C. $x \in [37.3, 40.8]$

D. $x \in [-0.6, 0.6]$

E. There are no real solutions.

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5. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(8, 7) \text{ and } (-4, -8)$$

A. $m \in [-4.2, -0.9]$ $b \in [-13.99, -12.84]$

B. $m \in [-0.7, 3.4]$ $b \in [-5.93, -3.61]$

C. $m \in [-0.7, 3.4]$ $b \in [1.04, 3.61]$

D. $m \in [-0.7, 3.4]$ $b \in [-1.64, 0.07]$

E. $m \in [-0.7, 3.4]$ $b \in [-3.33, -2.61]$

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6. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $6x - 5y = 7$ and passing through the point $(9, 3)$.

A. $m \in [1.14, 1.5]$ $b \in [-10.2, -6.2]$

B. $m \in [0.54, 1.14]$ $b \in [-10.2, -6.2]$

C. $m \in [1.14, 1.5]$ $b \in [-6.9, -5.9]$

D. $m \in [-1.23, -0.79]$ $b \in [13.5, 15.2]$

E. $m \in [1.14, 1.5]$ $b \in [6.6, 8.7]$

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7. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{5x-6}{5} - \frac{8x+3}{4} = \frac{-9x+5}{7}$$

A. $x \in [47, 53]$

B. $x \in [7.32, 11.32]$

C. $x \in [0.44, 3.44]$

D. $x \in [3.07, 6.07]$

E. There are no real solutions.

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8. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$(-6, 10)$ and $(-11, -10)$

A. $m \in [1, 12]$ $b \in [-38, -33]$

B. $m \in [1, 12]$ $b \in [32, 38]$

C. $m \in [1, 12]$ $b \in [15, 18]$

D. $m \in [-7, -2]$ $b \in [-54, -48]$

E. $m \in [1, 12]$ $b \in [-4, 6]$

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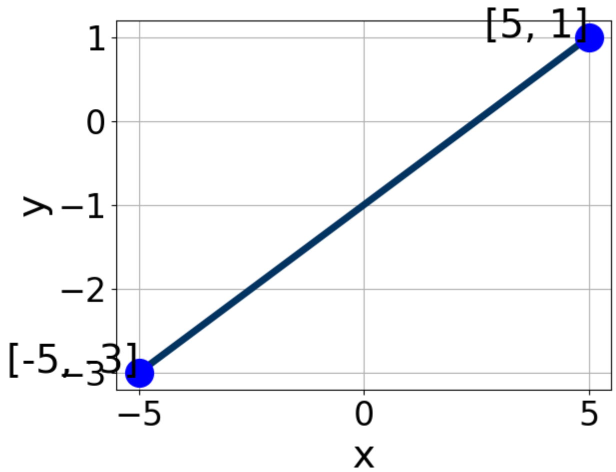
9. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-1.6, 0.3]$, $B \in [0.5, 1.4]$, and $C \in [-2.3, 0.75]$

B. $A \in [-1.6, 0.3]$, $B \in [-3.1, 0.8]$, and $C \in [0.97, 1.79]$

C. $A \in [1, 2.5]$, $B \in [4.4, 5.7]$, and $C \in [-5.13, -4.33]$

D. $A \in [-3.9, -1.4]$, $B \in [4.4, 5.7]$, and $C \in [-5.13, -4.33]$

E. $A \in [1, 2.5]$, $B \in [-6.2, -4.9]$, and $C \in [3.89, 6.19]$

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10. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $4x + 3y = 3$ and passing through the point $(8, -5)$.

A. $m \in [-1.67, -0.87]$ $b \in [-14, -7]$

B. $m \in [-1.67, -0.87]$ $b \in [-5.67, -2.67]$

C. $m \in [1.1, 1.75]$ $b \in [-20.67, -13.67]$

D. $m \in [-0.95, -0.37]$ $b \in [2.67, 6.67]$

E. $m \in [-1.67, -0.87]$ $b \in [2.67, 6.67]$
